

ABSTRACT

A tension member for an elevator system has an aspect ratio of greater than one, where aspect ratio is defined as the ratio of tension member width w to thickness t (w/t). The increase in aspect ratio results in a reduction in the maximum rope pressure and an increased flexibility as compared to conventional elevator ropes. As a result, smaller sheaves may be used with this type of tension member. In a particular embodiment, the tension member includes a plurality of individual load carrying cords encased within a common layer of coating. The coating layer separates the individual cords and defines an engagement surface for engaging a traction sheave.

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